



Because we depend on energy so much, we often take it for granted. It is only in times of emergency, such as the oil crisis in 1973 and the more recent conflict in the Middle East, that we fully realize its importance and understand how much our energy supply is susceptible to outside forces.

South Carolina spends more than \$10.2 billion annually on energy costs, some of which is the result of wasteful energy practices. Through conservation and better energy efficiency, this wasted money can be saved and put to more productive uses in our state's economy.

In addition, emissions from energy production, such as sulfur dioxide, nitrogen oxide, and carbon dioxide, often have adverse effects on our personal health, resulting in higher health care costs as well as causing serious harm to the environment. Energy conservation can reduce the harmful health and environmental effects of energy use.

To address these issues, the 1992 South Carolina Energy Conservation and Efficiency Act established the South Carolina Energy Office (SCEO) as a part of the State Budget and Control Board. The SCEO carries out the state policy and program mandates of the Act and also administers the State Energy Program funded by the U.S. Department of Energy.

Mission

The South Carolina Energy Office increases energy efficiency and diversity, enhances environmental quality and saves energy dollars for South Carolina.

I. Energy-Efficiency Services

Energy-efficiency analyses and technical assistance for:

- State agencies,
- Schools,
- Colleges and universities,
- Local governments,
- Hospitals and other non-profit organizations, and
- Commercial buildings and small industry.

Energy-conservation financing for:

- State agencies,
- Schools,
- Colleges and universities,
- Local governments, and
- Hospitals and other non-profit organizations.

Training workshops on:

- Energy-accounting software,
- Energy-efficiency operating procedures,
- Lighting efficiency,
- Heating and cooling efficiency, and
- Boiler efficiency.

Rebuild South Carolina: This comprehensive program helps public agencies and non-profit institutions implement energy-efficient improvements in their buildings and other facilities through energy audits, training and financing.



II. Energy Information

Energy-education materials and activities for schools including:

- *The Energy Factbook*,
- *The Science Fair Project Guidebook*,
- Action for a Cleaner Tomorrow curriculum supplement,
- E2IQ Kit,
- Energy 2 Learn teachers' forum, and
- Awards for regional science fair energy projects.



Helpful energy-conservation publications for all energy consumers (see below for selected titles).

Award-winning website (www.energy.sc.gov).

Electronic newsletter.

Energy-efficiency exhibits and demonstrations at regional home shows.

Presentations to groups.

Award-winning public service announcements.

Data collection and reporting on state energy production, consumption and prices.



III. Energy Resources, Policy & Planning

Energy emergency planning to address the state's energy needs during both disaster-related and economically-imposed emergencies.

Development of renewable energy sources through:

- Promotion of the use of landfill gas through the Landfill Methane Outreach Program,
- Advancement of the use of biomass for energy through national and regional programs,
- Promotion of the development of solar activities through the national Million Solar Roofs Initiative, and
- Promotion of Green Power to encourage the use of renewable resources for electricity production.



Monitoring and reporting on utility-related activities.

Policy analysis and recommendations, as requested.



IV. Transportation Activities

Facilitation of the use of ethanol, natural gas and biodiesel as transportation fuels.

Promotion of telecommuting programs.



PUBLICATIONS available by calling our toll-free number or by downloading from our website:

The Energy Connection

Information on energy efficiency, renewable energy, and the activities of the South Carolina Energy Office.

The Energy Factbook

A publication that covers the basics of energy production, conservation and efficiency for elementary and middle school students.

The Science Fair Project Guidebook

A guidebook that takes middle and high school students step-by-step through ten energy-based projects suitable for science fairs.

Passive Solar Home Designs for South Carolina

A comprehensive book that shows how a well-designed passive solar home provides comfort, low energy bills, and aesthetic living for the homeowner, while improving South Carolina's environment and economy. Includes plans for ten passive solar homes.

Landscape Design for Energy Efficiency

Displays the role well-planned landscaping can play in an energy-efficient house.

South Carolina Energy Use Profile

A document that provides South Carolina-specific energy data as well as a comparative international, national and regional data.

Guide To Energy Performance Contracting

Provides the methodology and potential cost and benefits of energy-performance contracting for school districts and local governments.

Energy Use in South Carolina's Public Facilities

Provides yearly updates on energy-consumption data received from state agencies and public school districts.

Also Available

Your Mobile Home

Energy Savers: Tips on Saving Energy & Money at Home

Improving the Efficiency of Your Duct System

Ethanol Fact Book

The Use of Biomass Fuel in South Carolina

How To Reduce Your Energy Costs (for commercial and industrial buildings)

Xeriscape: Landscape Water Conservation in the Southeast

Energy Briefs covering topics such as automatic and programmable thermostats, energy-efficient air conditioning, lighting, water heating, and windows, geothermal heat pump systems, a guide to making energy-efficient purchases, loose-fill insulations, natural cooling, saving energy with electric-resistance heating, selecting a new water heater and solar water heating.

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